

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

To:
MATSUSHITA ELECTRIC INDUSTRIAL Co., Ltd.
Attn. IWAHASHI, Fumio
1006, Oaza Kadoma
Kadoma-shi, Osaka 571-8501
JAPAN

11AE-9

Date of mailing
 (day/month/year)

26/01/2001

Applicant's or agent's file reference

P23275-P0

11AE-9
25000**PAYMENT DUE**

within **45** ~~days~~/days
 from the above date of mailing

International application No.

PCT/JP 00/ 06829

International filing date
 (day/month/year)

02/10/2000

Applicant

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD

1. This International Searching Authority

- (i) considers that there are 3 (number of) inventions claimed in the international application covered by the claims indicated ~~below~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~below~~ on the extra sheet:

- (ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:

1-5, 10-13

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

2. The applicant is hereby invited, within the time limit indicated above, to pay the amount indicated below:

DEM 1.848,26 x 2 = DEM 3.696,52
 Fee per additional invention number of additional inventions total amount of additional fees

Or, EUR 945,00 x 2 = EUR 1.890,00

The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☐ Claim(s) Nos. _____ have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
 NL-2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Cornelia Schulze

RECEIVED

Patent Dep.
IPC

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-5, 10-13

motor, method for assembling a motor using a motor base holder and motor base holder comprising several motor bases

2. Claim : 6

motor with a secure attachment of the stator to the stator supporter

3. Claims: 7-9

motor with a grounded cover

1. The document JP10295068 (D1) which is the closest prior-art discloses in fig. 1 and 2 a motor comprising:
- a motor base (2) including a base and a bearing and stator supporter (20) protruding from the base for supporting a bearing (3) and a stator (4) concentrically,
 - terminals (71-74, 751, 761, 771) made of a metal plate, insert-molded in the base and disposed around the bearing supporter (see paragraphs (16 and 22)) and,
 - a rotor (6) supported by the bearing

- The motor base is formed by cutting off bridges (arrows F on figure 3) dispersively disposed around the motor base and linking the motor base and a frame (701, see paragraph 23). Therefore the subject-matter of claims 5 and 13 is not new.

The motor base and the frame as disclosed in figure 3 constitute a motor base holder as claimed in claim 1. The subject-matter of claim 1 is therefore not new.

This document D1 discloses also a method of assembling a motor using a motor base holder, the method comprising the steps of:

- positioning and supporting the motor base at a -no further described- given place by a frame (paragraphs 21 and 22)
- detaching the motor base from the frame (paragraph 23)
- assembling the stator and the rotor to the motor base (paragraph 24)

The subject-matter of claim 10 is therefore not new.

2. The subject-matter of claims 2, 3, 4, 11 and 12 is not known from D1. The objective problem solved by these features can be seen in providing a motor base holder for a better handling of motor bases in the manufacturing process (see application page 12, lines 2-4 and 23-27)

3. The subject-matter of claim 6 differs from D1 in that a bushing is press-fitted into the stator fixer for fixing the stator. The objective problem solved by this feature can be seen in providing a secure attachment of the stator to the stator supporter.

4. The subject-matter of claim 7 differs from D1 in that a metal cover

of which end is fixed to a metal tip for covering the rotor. The objective problem solved by this feature can be seen in providing a grounded cover to the motor for shielding electromagnetic noises produced by the motor (see application page 11, lines 9-11).

5. Thus three different problems are solved by three different groups of special technical features. A technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT does not exist between the subject-matter of claims 1-5 and 10-13 on the one hand and claim 6 and claims 7-9 on the other hand.

The application does not fulfilled the requirements of Rule 13.1 and 13.2 PCT.

**Annex to Form PCT/ISA/206
COMMUNICATION RELATING TO THE RESULTS
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No
PCT/JP 00/06829

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- 1-5, 10-13**
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) -& JP 10 295068 A (SANKYO SEIKI MFG CO LTD), 4 November 1998 (1998-11-04) abstract	1, 5, 10, 13
Y	abstract	2, 3, 11, 12
Y	US 4 673 837 A (GINGERICH DAVID J ET AL) 16 June 1987 (1987-06-16) column 2, line 45 - line 50 column 3, line 5 - line 37; figures 1-3	2, 3, 11, 12
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) -& JP 09 070162 A (MATSUSHITA ELECTRIC IND CO LTD), 11 March 1997 (1997-03-11) abstract	1, 5, 13

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 10295068	A	04-11-1998	NONE	
US 4673837	A	16-06-1987	US 4783906 A US 4895536 A	15-11-1988 23-01-1990
JP 09070162	A	11-03-1997	NONE	

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

To:
**MATSUSHITA ELECTRIC INDUSTRIAL
Co., Ltd.**
Attn. IWAHASHI, Fumio
1006, Oaza Kadoma
Kadoma-shi, Osaka 571-8501
JAPAN

情モータ

Date of mailing
(day/month/year) **03/04/2001**

Applicant's or agent's file reference

P23275-PO

情モータ

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/JP 00/ 06829

✓

25020

International filing date
(day/month/year)

02/10/2000 ✓

Applicant

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

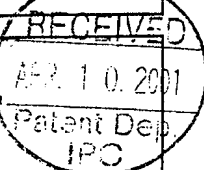


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Authorized officer

Doreen Golze

[Signature]



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P23275-P0	FOR FURTHER ACTION		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/ JP 00/ 06829	International filing date (day/month/year) 02/10/2000	(Earliest) Priority Date (day/month/year) 10/12/1999	
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

MOTOR ASSEMBLED BY USING MOTOR-BASE-HOLDER AND METHOD OF ASSEMBLING THE SAME MOTOR

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

5

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 00/06829

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A motor includes a motor-base-holder which comprises a base (3101), a bearing supporter (3151) vertically protruded from the base for supporting a bearing, (3200) a stator supporter concentric with the bearing supporter for being mounted with a stator, (2000) a motor base having terminals (2200) made of a metal plate and insert-molded around the bearing supporter, and a frame (4101) made of the same metal as the terminals and linked to fringe of the motor base. This structure solves difficulties of mini-motors such as difficulties of handling the motor, difficulties of mating those elements each other, and time-consuming bonding action. A method of assembling the same motor achieves high productivity.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 00/06829

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02K15/02 H02K5/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) -& JP 10 295068 A (SANKYO SEIKI MFG CO LTD), 4 November 1998 (1998-11-04)	1,5,10, 13
Y	abstract	2,3,7-9, 11,12
Y	US 4 673 837 A (GINGERICH DAVID J ET AL) 16 June 1987 (1987-06-16) column 2, line 45 - line 50 column 3, line 5 - line 37; figures 1-3 -/-	2,3,11, 12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

28 March 2001

Date of mailing of the international search report

03.04.01

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Roy, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 00/06829

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) -& JP 09 070162 A (MATSUSHITA ELECTRIC IND CO LTD), 11 March 1997 (1997-03-11) abstract ---	1,5,13
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09, 31 July 1998 (1998-07-31) & JP 10 108433 A (TOSHIBA LIGHTING &TECHNOL CORP), 24 April 1998 (1998-04-24) abstract ---	6
Y	US 4 853 568 A (FUJIWARA HITOSHI) 1 August 1989 (1989-08-01) column 1, line 18 - line 27; claim 1; figures 1,2 ---	7-9
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 263 (E-1550), 19 May 1994 (1994-05-19) & JP 06 038432 A (MATSUSHITA ELECTRIC IND CO LTD), 10 February 1994 (1994-02-10) abstract -----	7-9

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-5,10-13

motor, method for assembling a motor using a motor base holder and motor base holder comprising several motor bases

2. Claim : 6

motor with a secure attachment of the stator to the stator supporter

3. Claims: 7-9

motor with a grounded cover

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 00/06829

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 10295068 A	04-11-1998	NONE	
US 4673837 A	16-06-1987	US 4783906 A US 4895536 A	15-11-1988 23-01-1990
JP 09070162 A	11-03-1997	NONE	
JP 10108433 A	24-04-1998	NONE	
US 4853568 A	01-08-1989	CN 88100872 A, B DE 3803267 A GB 2201301 A, B HK 83194 A	14-09-1988 25-08-1988 24-08-1988 26-08-1994
JP 06038432 A	10-02-1994	NONE	



P.B.5818 - Patentlaan 2
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TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

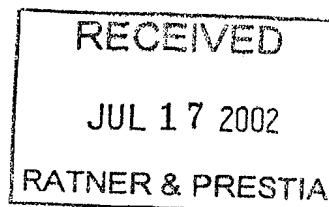
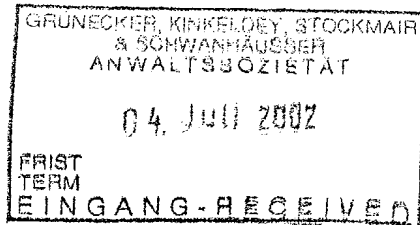
European
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division

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des brevets

Département à
La Haye
Division de la
recherche

Grünecker, Kinkeldey,
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ALLEMAGNE



Datum/Date

01. 07. 2002

Zeichen/Ref./Réf.

EP20478-50/iw

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.
01101818.1

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

Matsushita Electric Industrial Co., Ltd.

COMMUNICATION

The European Patent Office herewith transmits

- ☒ the European search report
- ☐ the declaration under Rule 45 EPC
- ☐ the partial European search report under Rule 45 EPC
- ☐ the supplementary European search report concerning the international application under Article 157(2) EPC relating to the above-mentioned European patent application. Copies of the documents cited in the search report are enclosed.

The following specifications given by the applicant have been approved by the Search Division :

- ☒ Abstract ☒ Title ☒ Figure
- ☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.
- ☐ The following figure will be published with the abstract, since the Search Division considers that it better characterises the invention than the one indicated by the applicant.

Figure:

- ☒ Additional copy(copies) of the documents cited in the European search report.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO Form 1507 02.93



European Patent
Office

Application Number
EP 01 10 1818

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



European Patent
Office

LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 01 10 1818

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-3,13

Motor and apparatus comprising a motor with a stator stopper for increasing the impact resistance

2. Claims: 4-10,14-17

Motor and apparatus comprising a motor with distances between rotor and stator and/or housing set to increase the impact resistance

3. Claims: 11,18

Motor and apparatus comprising a motor with a rotor having an eccentric weight and with an increased impact resistance

4. Claims: 12,19

Motor and apparatus comprising a motor mounted to a board and having an increased impact resistance



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 10 1818

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
✓ X	PATENT ABSTRACTS OF JAPAN ✓ vol. 017, no. 494 (E-1428), 7 September 1993 (1993-09-07) -& JP 05 122886 A (NIPPON DENSAN CORP), 18 May 1993 (1993-05-18) * abstract *	1,2,13	H02K21/22 H02K1/18 H02K5/22 H02K7/06 H02K5/24
Y	* abstract *	3	
✓ Y	US 5 475 274 A (KATAKURA KOICHI) ✓ 12 December 1995 (1995-12-12) * column 1, line 64 - column 2, line 4 * * column 5, line 59 - line 65; figures 1,2 *	3	
✓ Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) -& JP 10 295068 A (SANKYO SEIKI MFG CO LTD), 4 November 1998 (1998-11-04) * abstract *	1,2	
✓ Y	US 5 606 208 A (SAKASHITA HIROSHI ET AL) 25 February 1997 (1997-02-25) * column 3, line 44 - line 53; figure 1 *	1,2	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
✓ E	WO 01 43261 A (MATSUSHITA ELECTRIC IND CO LTD) 14 June 2001 (2001-06-14) * the whole document *	1,2	H02K H05K B06B
✓ P,X	EP 1 016 467 A (MATSUSHITA ELECTRIC IND CO LTD) 5 July 2000 (2000-07-05) * the whole document *	1,2	
✓ A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04, 30 April 1996 (1996-04-30) & JP 07 336924 A (NIPPON DENSAN CORP), 22 December 1995 (1995-12-22) * abstract *	3	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 31 May 2002	Examiner Roy, C
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
✓ X	PATENT ABSTRACTS OF JAPAN vol. 015, no. 009 (E-1021), 9 January 1991 (1991-01-09) -& JP 02 261043 A (SHICOH ENG CO LTD), 23 October 1990 (1990-10-23) * abstract *	4-6,14, 15	
✓ A	US 5 894 263 A (FUJIWARA NORIYUKI ET AL) 13 April 1999 (1999-04-13) * column 8, line 17 - line 22; figure 7 *	4-8,14, 15	
✓ A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 595 (E-1630), 14 November 1994 (1994-11-14) -& JP 06 225484 A (SEKIYU KODAN), 12 August 1994 (1994-08-12) * abstract *	4,5,14, 15	
✓ A	US 5 798 588 A (OKUYAMA TOSHIHIDE ET AL) 25 August 1998 (1998-08-25) * column 5, line 26 - line 34; figures 11,13 * * column 6, line 53 - line 62 *	4,5,10, 14,15,17	
✓ X	US 4 771 199 A (JOHANNES BERTRAM) 13 September 1988 (1988-09-13) * claim 1; figure 1 *	5,6,10	
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search BERLIN		Date of completion of the search 31 May 2002	Examiner Roy, C
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EUROPEAN SEARCH REPORT

Application Number
EP 01 10 1818

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
✓ X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08, 29 September 1995 (1995-09-29) -& JP 07 123672 A (SONY CORP), 12 May 1995 (1995-05-12) * abstract *	5, 8, 15, 16	
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✓ X	--- US 5 391 952 A (SIMAZU KUNIO ET AL) 21 February 1995 (1995-02-21) * column 4, line 62 - column 5, line 1; figure 4 *	11, 18	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
3 The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 31 May 2002	Examiner Roy, C
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P4/C01)



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 01 10 1818

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
✓ A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) - & JP 09 070162 A (MATSUSHITA ELECTRIC IND CO LTD), 11 March 1997 (1997-03-11) * abstract *	12, 19	
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search BERLIN		Date of completion of the search 31 May 2002	Examiner Roy, C
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div><div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document</div></div>			

3

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 1818

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

31-05-2002

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ON EUROPEAN PATENT APPLICATION NO.**

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 1818

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

31-05-2002

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& SCHWANHÄUSSER
ANWALTSSOZietät

01. März 2002
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Datum/Date
27.02.02

Zeichen/Ref./Réf./
EP20478-50/iw

Anmeldung Nr./Application No./Demande n°//Patent Nr./Patent No./Brevet n°
01101818.1-1522/

Anmelder/Applicant/Demandeur//Patentinhaber/Proprietor/Titulaire
Matsushita Electric Industrial Co., Ltd.

COMMUNICATION

The European Patent Office herewith transmits the partial European search report under Rule 46(1) EPC relating to the above-mentioned European patent application.

Copies of the documents cited in the search report are enclosed.

The applicant's attention is drawn to the following:

The search Division informs the applicant that if the European search report is also to cover inventions other than the invention first mentioned in the claims, a further search fee must be paid for each of these inventions, within ONE MONTH after notification of this communication.

If the application has been filed up to 30 June 1999, the search fee in force before 01 July 1999 (EUR 869,-) or the equivalent applicable on the date of payment is payable.

This applies also to the search fees requested under Rule 46(1) EPC.

See also OJ EPO 06/1999, 405.

- ☐ The abstract was modified by the Search Division and the definitive text is attached to the present communication.
- ☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.



Note to users of the automatic debiting procedure:

Unless the EPO receives prior instructions to the contrary, the search fee(s) will be debited on the last day of the period for payment. For further details see the Arrangements for the automatic debiting procedure, Supplement to OJ EPO 02/1999.

REGISTERED LETTER



European Patent
Office

PARTIAL EUROPEAN SEARCH REPORT

under Rule 46, paragraph 1 of the European Patent Convention EP 01 10 1818

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X ① ✓	PATENT ABSTRACTS OF JAPAN vol. 017, no. 494 (E-1428), 7 September 1993 (1993-09-07) -& JP 05 122886 A (NIPPON DENSAN CORP), 18 May 1993 (1993-05-18) * abstract *	1,2,13	H02K21/22 H02K1/18 H02K5/22 H02K7/06 H02K5/24
Y	---	3	
Y ② ✓	US 5 475 274 A (KATAKURA KOICHI) 12 December 1995 (1995-12-12) * column 1, line 64 - column 2, line 4 * * column 5, line 59 - line 65; figures 1,2 *	3	
Y ③ ✓	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) -& JP 10 295068 A (SANKYO SEIKI MFG CO LTD), 4 November 1998 (1998-11-04) * abstract *	1,2	
Y ④ ✓	US 5 606 208 A (SAKASHITA HIROSHI ET AL) 25 February 1997 (1997-02-25) * column 3, line 44 - line 53; figure 1 * --- -/--	1,2	

TECHNICAL FIELDS
SEARCHED (Int.Cl.7)

H02K

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

The present partial European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

2

EPO FORM 1503 03.82 (P04C27)

Place of search BERLIN	Date of completion of the search 15 January 2002	Examiner Roy, C
CATEGORY OF CITED DOCUMENTS		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		
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European Patent
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PARTIAL EUROPEAN SEARCH REPORT

Application Number
EP 01 10 1818

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
E ✓ (5)	WO 01 43261 A (MATSUSHITA ELECTRIC IND CO LTD) 14 June 2001 (2001-06-14) * the whole document *	1,2	
P,X ✓ (6)	EP 1 016 467 A (MATSUSHITA ELECTRIC IND CO LTD) 5 July 2000 (2000-07-05) * the whole document *	1,2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)



European Patent
Office

LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 01 10 1818

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-3,13

Motor and apparatus comprising a motor with a stator stopper for increasing the impact resistance

2. Claims: 4-10,14-17

Motor and apparatus comprising a motor with distances between rotor and stator and/or housing set to increase the impact resistance

3. Claims: 11,18

Motor and apparatus comprising a motor with a rotor having an eccentric weight and with an increased impact resistance

4. Claims: 12,19

Motor and apparatus comprising a motor mounted to a board and having an increased impact resistance

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 1818

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15-01-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 05122886	A	18-05-1993	NONE		
US 5475274	A	12-12-1995	NONE		
JP 10295068	A	04-11-1998	NONE		
US 5606208	A	25-02-1997	WO	9311597 A1	10-06-1993
			JP	2603799 B2	23-04-1997
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